



WORKSHOPS 2009

June 11-12



WS 16: Digital Printing on Glass

Presenters: Yariv Ninjo & Tommi Salenius, DIP Tech Ltd.



Course Summary

With the introduction of the ink-jet, using ceramic inks for the decoration of all types of flat glass, ranging from automotive glass to domestic appliance, furniture and architectural glass a new, state of the art, application technique is a fact. Using the ink-jet system the glass decorating industry has the possibility to reduce costs significantly, and at the same time offer a wider range of products to their end customers. All this without losing any of the advantages the traditional ceramic ink offers. The workshop will give a detailed understanding of the ink-jet system as well as the products available.

The workshop will kick off with a detailed explanation of the ink-jet technique offering the participants a clear understanding of what is possible and various advantages these possibilities offer to the industry.

Further the participants get an insight in the product used with the ink-jet. A detailed explanation of the products used will be provided and examples of the end products will be available for the participants to assess.

The workshop expose the participants to the on-glass digital printing technology and broaden their knowledge on new and exciting possibilities to decorate glass.

Bullet Point Summary

- Digital printing background and History
- When and why to use Digital printing
- Digital printing workflow
- Digital printing technologies
- Ceramic ink characteristics
- Digital Printing projects worldwide – use cases
- Digital printing current and future
- Open discussion

- Demo printing in Tamglass factory



Course timetable - Friday 12.6.2009

9.30 - 13.00 including coffee break and a short lunch

Course will be held at the Glaston headquarters in Tampere.
A factory demonstration will also be included in the course.

WORKSHOP LOCATION:
GLASTON FACTORY
VEHMAISTENKATU 5, TAMPERE

Registration for Workshops at www.gpd.fi





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THURSDAY 11 June

Structural Properties of Laminated Glass

Presenters: S. J. Bennison & I. Stelzer,
E.I. DuPont de Nemours & Co. Inc

Milestones to better understand the Flat Glass Business (history - today - tomorrow)

Presenter: B. Savaëte, BJS. Différences

Industrial Glass Coating Technologies and systems powered by nanotechnology (Beneq)

Presenter: M. Saikkonen, Beneq Oy

Glass Tempering Process (level1): Fundamental steps in tempering and machine test runs

Presenters: V-J. Kuusiniemi & T. Pesonen & M. Äppelqvist & S. Suominen, Glaston Finland Oy

Glass Bending & Tempering process: Theory and machine test runs

Presenters: V-J. Kuusiniemi & T. Pesonen & M. Äppelqvist & S. Suominen, Glaston Finland Oy

Laminating of Heat treated and other speciality glass

Presenters: M.P. Verleyen, Solutia Europe; M. Rantanen & J. Ala-Savikota, Glaston Finland Oy; R. Giovannini, Glaston Italy; A. Uusikartano, Suomen Turvalasi Tambest; C. Bostick, Consulting Architects; J. Gilleeney, Independent Glass

Glass processing basics for Solar industry specialists

Presenters: R. Nieminen, Glaston America Inc.; I. Hiekkanen & T. Pesonen, Glaston Finland Oy

Understanding glass strength, stress analysis and design methodologies for architectural glass

Presenter: Dr. L. Jacob, Jacob & Associates Pty Ltd.

FRIDAY 12 June

Cutting, Grinding, Washing: Three fundamental steps in Float Glass Processing

Presenters: P. Pokoern, Bohle AG; M. Emonds, ACW

Coated Glass - Applications and markets

Presenter: S. Nadel, Applied Materials

Seeing Through Glass Design

Presenter: C. Bostick, Consulting Architects

Basics of Glass Coating Processes and Coated Glass

Presenters: P. Vuoristo & T. Mäntylä,
Tampere University of Technology

Digital Printing on Glass

Presenters: Y. Ninoy & T. Salenius, DIP Tech Ltd.

Glass Tempering Process (level2): Glass Factory profitability and tempering technology know-how

Presenters: V-J. Kuusiniemi & T. Pesonen & M. Äppelqvist, Glaston Finland Oy; F. Serruys, Saint-Gobain Glass Solutions

Profitability of a Glass Processing Factory

Presenter: K. Heikkilä, Glaston Singapore

Solar Power - Opportunities for the glass industry

Presenters: R. Nieminen, Glaston America Inc.; I. Hiekkanen, Glaston Finland Oy; M. Rajala, Beneq Oy; A. Karpinski, Kuraray Europe GmbH; O. Mal, AGC Flat Glass; B. Szyszka, Fraunhofer IST; S. Byers, Ritec International Ltd.; V. Geyer, Scheuten Solar; G. Strij-Hipp, BSW Solar

New trends in the Infrared Non-contact Temperature Measurement for the glass industries

Presenters: R. Gärtner & E. Drews, Raytek GmbH

Registration for Workshops at www.gpd.fi

